

Utah Weekly Pertussis Update

2019 data, through MMWR week ending January 5 (MMWR week 1)

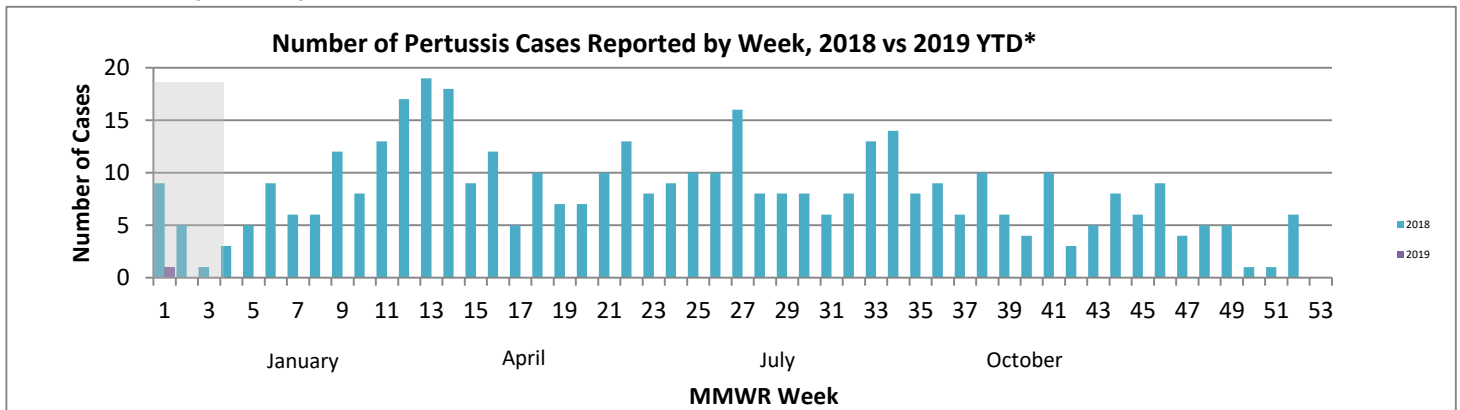
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	1	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	1.7
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	1	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	9	2019 Hospitalizations	0
Age groups with the highest rates	15-24	2019 Cases in infants <1 year	0

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	0	51,401	0.0
1-4	0	203,799	0.0
5-14	0	521,331	0.0
15-24	1	495,829	10.5
25-34	0	457,423	0.0
35-44	0	422,547	0.0
45-54	0	317,532	0.0
55-64	0	296,399	0.0
65+	0	335,572	0.0
Unknown	0	-	-
Total	1	3,101,833	1.7

* Rate is calculated per 100,000 person years.

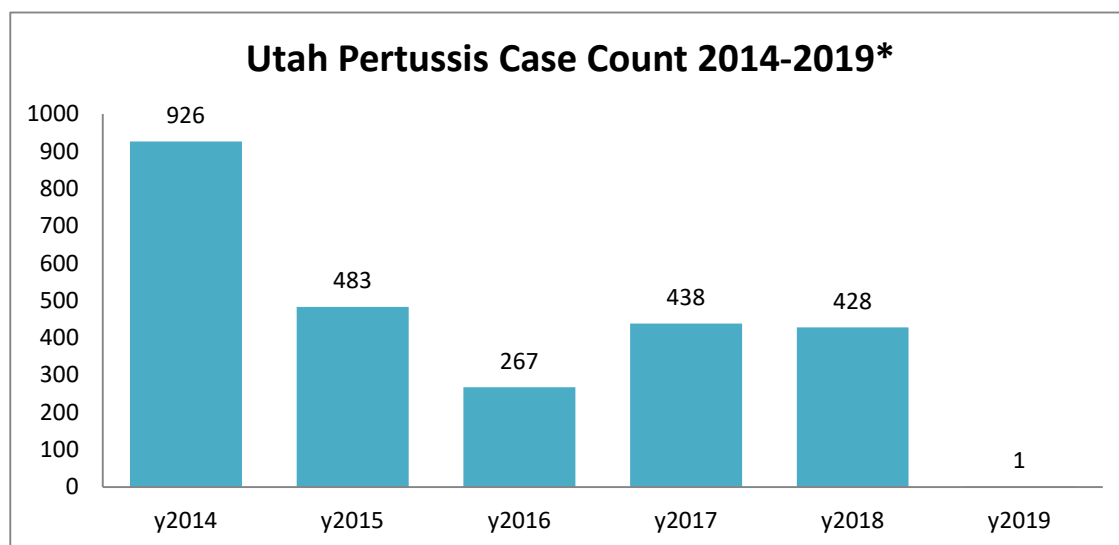
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	0	102,181	0.0
Kindergarten	5	0	49,869	0.0
1	6	0	51,269	0.0
2	7	0	52,299	0.0
3	8	0	52,131	0.0
4	9	0	53,612	0.0
5	10	0	53,712	0.0
6	11	0	52,765	0.0
7	12	0	52,359	0.0
8	13	0	51,910	0.0
9	14	0	51,405	0.0
10	15	0	49,974	0.0
11	16	0	49,983	0.0
12	17	0	50,211	0.0

* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2014-2019* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	0	0.0
Central Utah	0	0.0
Davis County	0	0.0
Salt Lake County	1	4.6
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	0	0.0
Summit County	0	0.0
Tooele County	0	0.0
TriCounty	0	0.0
Utah County	0	0.0
Wasatch County	0	0.0
Weber-Morgan	0	0.0

* Rate is calculated per 100,000 person-years using 2017 Utah population estimates.

